

NOTICE AND NECESSARY INFORMATION (NANI)

This form is to assist compliance with the bulk sewage (biosolids) notification requirements [503.12(f)]. Please note, however, that if the biosolids meet the exceptional quality criteria, then the notification requirements do not apply. This form can be used by preparers of biosolids to transmit information to land appliers and also by land appliers to transmit information to land owners or lease holders.

Facility and Biosolids Type:: NWWRP Compliance

Monitoring Period: 5/1/15 To: 6/30/15

Name	Concentration (mg/Kg) Dry Weight	Pollutant Concentrations (Table 3, 40 CFR 503.13) Monthly Average	Ceiling Concentrations* (Table 1, 40 CFR 503.13) Daily Maximum
Arsenic	24	41	75
Cadmium	< 21	39	85
Chromium	71	1200	3000
Copper	420	1500	4300
Lead	< 21	300	840
Mercury	0.84	17	57
Molybdenum	9.8	N/A**	75
Nickel	39	420	420
Nitrogen Concen	53400	N/A	N/A
Selenium	29	36	100
Zinc	670	2800	7500

* Biosolids may not be land applied if any pollutant exceeds these values.

** EPA has temporarily removed molybdenum limits from Table 3, Table 2 and Table

B. Pathogen Reduction (40CFR 503.32) -- Please indicate the level achieved


☐ Class A ☒ Class B

C. Vector Attraction Reduction (40CFR 503.33) -- Please indicate the option performed

☒ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4
☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8
☐ No vector attraction reduction options were performed

D. Certification

I certify, under penalty of law, that the information that will be used to determine compliance with the Class B pathogen requirements in §503.32(b) and the vector attraction reduction requirement in §503.33(b)(1) was prepared under my direction and supervision in accordance with the system designed to ensure that qualified personnel properly gather and evaluate this information. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment.

A. Name and Official Title Jennifer Hetherington, Wastewater Compliance Specialist	B. Area Code and Telephone Number 480-644-3890
C. Signature 	D. Date Signed 5/27/15

Laboratory Sample ID: 150508010

**CITY OF MESA COMPLIANCE LABORATORY****640 NORTH MESA DRIVE MESA, ARIZONA 85211**

Environmental Laboratory License AZ0410

LABORATORY SUPERVISOR: MATTHEW REXING Ph (480)644-5403

QUALITY ASSURANCE COORDINATOR: Amy Cerwinske Ph (480)644-6901

Attn: Jennifer Hetherington

OrderID: 150508010

CollectDate: 5/7/2015

Collection Time: 12:30:00 PM

Collector: operator

Sample Number: 15050355

ReceiveDate: 5/8/2015

Customer Sample#:

Project ID: NWWRP BIOSOLIDS

Site: NWWRP Biosolids

RESULTS

Parameter	Method No	MRL	Qualifier	Result	Analysis Date	Analyst
Nitrogen, Ammonia Total	SM4500-NH3D	250	D2	8850 mg/Kg-dry	5/14/2015	KHALLA
Cyanide, Total	EPA 9014	1.7		2.70 mg/Kg-dry	5/15/2015	TAL
Aluminum, Total	EPA 6010B			n/a mg/Kg-dry	5/14/2015	TAL
Antimony, Total	EPA 6010B	29		n/a mg/Kg-dry	5/14/2015	TAL
Arsenic, Total	EPA 6010B	21		24 mg/Kg-dry	5/14/2015	TAL
Barium, Total	EPA 6010B	29		n/a mg/Kg-dry	5/14/2015	TAL
Beryllium, Total	EPA 6010B	2.9		n/a mg/Kg-dry	5/14/2015	TAL
Cadmium, Total	EPA 6010B	21		< 21 mg/Kg-dry	5/14/2015	TAL
Chromium, Total	EPA 6010B	8.6		71 mg/Kg-dry	5/14/2015	TAL
Copper, Total	EPA 6010B	21		420 mg/Kg-dry	5/14/2015	TAL
Lead, Total	EPA 6010B	21		< 21 mg/Kg-dry	5/14/2015	TAL
Molybdenum, Total	EPA 6010B	8.6		9.8 mg/Kg-dry	5/14/2015	TAL
Nickel, Total	EPA 6010B	8.6		39 mg/Kg-dry	5/14/2015	TAL
Selenium, Total	EPA 6010B	21		29 mg/Kg-dry	5/14/2015	TAL
Silver, Total	EPA 6010B	11		< 11 mg/Kg-dry	5/14/2015	TAL
Thallium, Total	EPA 6010B	29		n/a mg/Kg-dry	5/14/2015	TAL
Zinc, Total	EPA 6010B	43		670 mg/Kg-dry	5/14/2015	TAL
Selenium, Total	EPA 6010B	0.25		< 0.25 mg/L	5/15/2015	TAL
Mercury, Total	EPA 7471A	0.39		0.84 mg/Kg-dry	5/13/2015	TAL
Nitrogen, Nitrate-Nitrite Total	EPA 9056	4.3		4.3 mg/Kg-dry	5/20/2015	TAL
Nitrogen, Kjeldahl Total	SM4500-Norg	995	R4	53400 mg/Kg-dry	5/13/2015	KHALLA
Nitrogen, Total	Calculation	999		53400 mg/Kg-dry	5/26/2015	ACERWIN
Paint Filter	EPA 9095B			abs pres/abs	5/11/2015	KHALLA
Percent Moisture	SM2540G	0.1		77.0 %	5/11/2015	TAL
Percent Soil	SM2540G	0.1		23.0 %	5/11/2015	TAL
pH	EPA 9045D	1.68		8.11 S.U.	5/11/2015	KHALLA
Phosphate as P, Total	SM4500-P	4303	D2 M3 R1	26500 mg/Kg-dry	5/13/2015	KHALLA
Solids, Total	SM2540G	1		23.0 %	5/12/2015	NSILIDE

QUALIFIERS

D2 Sample diluted due to high concentration.

R4 MS/MSD RPD > method limit. Recovery acceptable.

COMMENTS

R1 RPD exceeded method acceptance limits due to matrix. M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated blank spike recovery was acceptable.

REVIEWED BY:

Amy L Czerwinski

Date Signed: 5/27/2015



Chain of Custody

Project Manager: Jennifer Hetherington

Order# <u>150508010</u>		Sampled By: <u>B. Lewis</u>	
Customer Name: <u>NWWRP Compliance</u>		Date Sampled: <u>5/8/15</u>	
Project Name: <u>NWWRP BIOSOLIDS</u>		Time Sampled: <u>1240</u>	
		Receiving Temp: <u>20C</u>	
Sample Number	<u>15050355</u>	Comments:	
Analysis	NWWRP Biosolids	# of Bottles	Metals: Arsenic, Cadmium, Chromium, Copper, Lead, Molybdenum, Nickel, Selenium, Silver, Zinc
Paint Filter	X	<u>2</u>	
Mercury - SW7471A	X		
Metals - SW6010B	X		
pH	X		
Temperature	X		
Ammonia - 4500NH3D	X		Time Sampled: <u>0627</u> Sampler: <u>B. Lewis</u>
Nitrate-N - EPA9056	X		<u>0730</u> <u>B. Lewis</u>
Nitrite-N - EPA9056	X		<u>0825</u> <u>B. Lewis</u>
TKN - 4500 N ORG C	X		<u>0930</u> <u>B. Lewis</u>
Phosphorus - 4500-P B,E	X		<u>1037</u> <u>B. Lewis</u>
% Moisture	X		<u>1127</u> <u>B. Lewis</u>
% Solids	X		<u>1230</u> <u>B. Lewis</u>
Cyanide Total - 9014	X		
Total Nitrogen	X		
ICP - Selenium TCLP	x		
Sampled & Relinquished by:		Sampled & Relinquished by:	
Signature: <u>Brian Lewis</u>	Time: <u>0840</u>	Signature:	Time:
Printed Name: <u>Brian Lewis</u>	Date: <u>5/8/15</u>	Printed Name:	Date:
Company Name: <u>City of Mesa</u>		Company Name:	
Received by:		Received by:	
Signature: <u>[Signature]</u>	Time: <u>0840</u>	Signature:	Time:
Printed Name: <u>[Name]</u>	Date: <u>5/8/15</u>	Printed Name:	Date:
Company Name:		Company Name:	
Sampled & Relinquished by:		Sampled & Relinquished by:	
Signature: <u>[Signature]</u>	Time: <u>0900</u>	Signature:	Time:
Printed Name: <u>[Name]</u>	Date: <u>5-8-15</u>	Printed Name:	Date:
Company Name:		Company Name:	
Received by:		Received by:	
Signature: <u>[Signature]</u>	Time: <u>0900</u>	Signature:	Time:
Printed Name: <u>[Name]</u>	Date: <u>5-8-15</u>	Printed Name:	Date:
Company Name:		Company Name:	